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ISO 9001:2008
CONSULTANTS & TESTING CENTER

# 174, Sri Ranga Complex
Amrutha Nagar Main Road
New Bank Colony, Konanakunte
Bangalore - 560 062.
Mobile : +91 97429 59595
Tele/Fax : 080-2632 2565
E-mail : civilexpertsltd@gmail.com
URL : www.civilexperts.in

**NABL ACCREDITED AS PER ISO/IEC 17025:2005**

Job No.: CECTC-BBMP-KRIDL-W.No.14-2015-16 08.04.2015

## Aggregate Impact Value
IS: 2386 Part IV

| | |
|---|---|
| **Client** | **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore. |
| **Agency** | **Technical Manager (West),** KRIDL, PIU, Bangalore. |
| **Name of the Work** | Improvements to Bagalagunte Main Road (from Maramma Temple to MEI Main Road) connecting MEI Layout Main Road & Cross Roads in Ward No. 14, |
| **Reference** | EE/DD/WO/372/2014-15 Dated: 31.03.2015 |
| **Sample ID** | WMM Layer |
| **Type of Mix** | Wet Mix macadam |
| **Date of Testing** | 08.04.2015 |

| Sl No. | Details | Trial No. | | Average |
|---|---|---|---|---|
| | | 1 | 2 | |
| 1 | Total weight of aggregate sample filling the cylindrical measure = $W_1$ g | 384 | 387 | |
| 2 | Weight of agregate passing 2.36 mm sieve after the test = $W_2$ g | 84 | 87 | |
| 3 | Weight of aggregate retained 2.36 mm sieve after the test = $W_3$ g | 300 | 300 | |
| 4 | Aggregate Impact value = percent fines | 21.88 | 22.48 | |
| | 100* ($W_2/W_1$)% | | | 22.18 |

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

**Note:**

→ This test report should not be reproduced except in full, without written approval of the laboratory

→ The results indicated above are based on the tests carried out on the samples received in the laboratory

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Job No.: CECTC-BBMP-KRIDL-W.No.14-2015-16 08.04.2015

## Aggregate Impact Value
IS: 2386 Part IV

| | |
|---|---|
| **Client** | **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore. |
| **Agency** | **Technical Manager (West),** KRIDL, PIU, Bangalore. |
| **Name of the Work** | Improvements to Bagalagunte Main Road (from Maramma Temple to MEI Main Road) connecting MEI Layout Main Road & Cross Roads in Ward No. 14, |
| **Reference** | EE/DD/WO/372/2014-15 Dated: 31.03.2015 |
| **Sample ID** | WMM Layer |
| **Type of Mix** | Wet Mix macadam |
| **Date of Testing** | 08.04.2015 |

| Sl No. | Details | Trial No. | | Average |
|---|---|---|---|---|
| | | 1 | 2 | |
| 1 | Total weight of aggregate sample filling the cylindrical measure = $W_1$ g | 380 | 385 | |
| 2 | Weight of agregate passing 2.36 mm sieve after the test = $W_2$ g | 81 | 86 | |
| 3 | Weight of aggregate retained 2.36 mm sieve after the test = $W_3$ g | 299 | 299 | |
| 4 | Aggregate Impact value = percent fines | 21.32 | 22.34 | |
| | 100* ($W_2/W_1$)% | | | 21.83 |

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Job No.: CECTC-BBMP-KRIDL-W.No.14-2015-16 Date : 08.04.2015

## ATTERBERG LIMITS TEST FOR WMM
### IS : 2720 (Part - 5)

**Client** : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

**Agency** : **Technical Manager (West),** KRIDL, PIU, Bangalore.

**Name of work** : Improvements to Bagalagunte Main Road (from Maramma Temple to MEI Main Road) connecting MEI Layout Main Road & Cross Roads in Ward No. 14, BBMP, Bangalore.

**Reference** : EE/DD/WO/372/2014-15 Dated: 31.03.2015

**Date of Testing** : 08.04.2015

As per MORTH Table : 400-13

| Sl. No. | Particulars | Test Results | Standards as per Specifications |
|---|---|---|---|
| 1 | Liquid Limit, % | 22.25 | 25.0% Maximum. |
| 2 | Plasticity Index, % | Non Plastic | 6.0% Maximum. |

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Job No.: CECTC-BBMP-KRIDL-W.No.14-2016-17 08.04.2015

## GRADATION FOR WMM
## MORTH TABLE-400-11

**Client** : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

**Agency** : **Technical Manager (West),** KRIDL, PIU, Bangalore.

**Name of Work** : Improvements to Bagalagunte Main Road (from Maramma Temple to MEI Main Road) connecting MEI Layout Main Road & Cross Roads in Ward No. 14, BBMP, Bangalore.

**Reference** : EE/DD/WO/372/2014-15 Dated: 31.03.2015

Date of Testing : 08.04.2015

Material : WMM

Sample ID : WMM Layer Oven Dry Wt (gm): **13710**

| Is Sieve Size in mm | Weight Retained (gm) | Cumulative Weight Retained (gm) | Cumulative % of Retained | Cumulative % of Passing | Spec.Limits |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0 | 100 | 100 |
| 45 | 385 | 385 | 2.8 | 97.2 | 95-100 |
| 22.4 | 3675 | 4060 | 29.6 | 70.4 | 60-80 |
| 11.2 | 3260 | 7320 | 53.4 | 46.6 | 40-60 |
| 4.75 | 2145 | 9465 | 69.0 | 31.0 | 25-40 |
| 2.36 | 1890 | 11355 | 82.8 | 17.2 | 15-30 |
| 0.600 | 935 | 12290 | 89.6 | 10.4 | 8-22 |
| 0.075 | 1075 | 13365 | 97.5 | 2.5 | 0-8 |

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Job No.: CECTC-BBMP-KRIDL-W.No.14-2016-17 08.04.2015

## GRADATION FOR WMM
## MORTH TABLE-400-11

**Client** : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

**Agency** : **Technical Manager (West),** KRIDL, PIU, Bangalore.

**Name of Work** : Improvements to Bagalagunte Main Road (from Maramma Temple to MEI Main Road) connecting MEI Layout Main Road & Cross Roads in Ward No. 14, BBMP, Bangalore.

**Reference** : EE/DD/WO/372/2014-15 Dated: 31.03.2015

Date of Testing : 08.04.2015

Material : WMM

Sample ID : WMM Layer Oven Dry Wt (gm): **13955**

| Is Sieve Size in mm | Weight Retained (gm) | Cumulative Weight Retained (gm) | Cumulative % of Retained | Cumulative % of Passing | Spec.Limits |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0 | 100 | 100 |
| 45 | 385 | 385 | 2.8 | 97.2 | 95-100 |
| 22.4 | 3680 | 4065 | 29.1 | 70.9 | 60-80 |
| 11.2 | 3255 | 7320 | 52.5 | 47.5 | 40-60 |
| 4.75 | 2615 | 9935 | 71.2 | 28.8 | 25-40 |
| 2.36 | 1820 | 11755 | 84.2 | 15.8 | 15-30 |
| 0.600 | 765 | 12520 | 89.7 | 10.3 | 8-22 |
| 0.075 | 1110 | 13630 | 97.7 | 2.3 | 0-8 |

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